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BY

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IN PARTIAL FULFILIBRIAL OF THE RATIONAL TRAFFICTS OF THE ALECCIATEDHIP OF THE NATIONAL TRAFFICTS OF BOUGATION, WEND LIMIT

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N. I. S. New-Delhi. D/ June 25.1968.

( HAR GOWIND GUPTA )

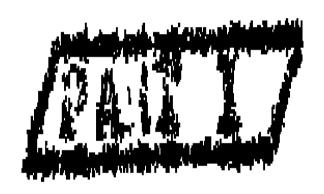
My Most Reverred Teachers,

In respect for all I have learnt at their feet,

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- HAR GUVIND JUPIA .



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# PROBLEM AND ITS SETTING:

"Whenever one is unable to achieve, or continue in, a condition of friendly relations with the environment, he must perforce pay attention to his own short-comings, and thereby become scutely swere of the incompatibility between himself and the physical and the social world outside, and of his isolation. (21,p.14).

A pupil's low scholartic achievement, when viewed from this viewpoint, indicates his poor adjustment in the school ev environment. Although intellectual ability considerably afrects a pupil's academic achievement, yet research studies show that many students with intelligence, considered sufficient for academic success have failed or have schieved at a level below their ability (6, p.187). This indicates that factors other than intellectual ones operate in one's scholastic achievement; and personality may be one of them (34,p.182). Significant differences, it has been found, exist between high and low achievers in respect of psychological factors like social adjustment, self-concept, and the like (10, Pp.110-111).

Interest in the human personality has stemmed from the belief that it can be improved considerably. " There is wide disagreement", refterate Newton and Noy the same

(24,Pp.1-2), "Concerning various aspects of personality; but almost all authorities, psuedo-authorities, out-right quacks, and layers agree that personality can be improved. But seem theorists in the field of human personality development are of the view that human personality resists change to a considerable degree. "If it were not so, life would, of course, he chaotic" (17,p.358). As a via media, it seems better to believe that, " every personality develops continually from the stage of infancy until death, and throughout this span it persists even though it changes" (1, p. 102).

In spite of the acknowledgement that, "differences in personality are fully as important as the differences in mental abilities" (34, p. 162) not such research has been denducted in this area, particularly in those personality areas which have a direct bearing on the pupil's academic achievement (e.g., industry and effort, emotional stability and extravarsion-introversion). The need for more systematic studies in this field has become importative because of influx of 'child population, into school; coming from different environments - e.g. poor and broken homes, emotionally poor adjusted parents and the like. It is, therefore, the need of the neur that pupils personality characteristics and their influence on academic achievement be identified so that the cause of low scholastic schievement that be studied and dealtwith.

The present study is merely an exploratory study

in this direction and intends to find out some basic differences between high and low achievers with regard to personality characteristics, which may be verified leter on.

#### STATEMENT OF THE PROBLEM.

The present study endeavours to identify significant differences between personality characteristics of high and low schievers, studying in Class IX because the first year of higher secondary school course, soften provides unious domands for scadomic study and class-room behaviour." (15, p.1)

More specifically, the problem may be stated as follows:

\* A Comparative Study of the Personality Character--istics of High and Low Achievers, as related to their Academic Achievement."

## DULIMITATION OF THE STUDY.

The present study was delimited in terms of the following fectors:

Although the term 'personality' is very comprehensive, yet it connotes specific meaning in the present study. It has explicitly been restricted to the following eight traits, in view of their paresount significance in the acadesic field:

- (1) Activity,
- (2) Hyponanic Comporament,
- (3) Attitude towards Moral Values.
- (4) Dominance.
- (5) Perenoid Tendency:
- (6) depressive fondermy,
- (7) Unotional Instability, and
- (8) Introversion.

Likewise, the term 'academic achievement', being very comprehensive one, is restricted in the present study to the subjects, (Ss) total marks of half-yearly examination, 1967-68.

# ECCES PERIOD OFF IND:

'Personality' has been defined in a variety of ways, Allport (lap.48), for instance, has defined the term personality in fifty ways from two distinct stand-points - definitions in terms of appearance, and definitions in terms of appearance, and definitions in terms of inner (essential) nature. The following definition seems to serve the purpose better:

\* Personality is the dynamic organisation within the individual of those psycholhysical systems that determine his unique adjustments to his environment\* (1, p.48).

binds personality is a mode of survival, "adjustments to environment" indicate one's adjustment

(as well as maladjustment) to his environment.

Personality in the present study from this standpoint, has been defined in terms of eight traits which need a brief description:

#### ATTIVITYL

It refers to speed of work, planning, and good execution of work. It also includes persistence against mental buredom and physical fatigue. A person, scoring high on this trait, is regular, punctual, diligent, patient, and careful regarding his work.

#### HYPUMATIC TEMPERATEMITA

fulness, (b) Sociability, and (c) Active and lively disposition. A person, containing a nigh score on this trait, is carefree, happy-go-lucky, and humorous; he takes an active part in the conversation and is quick to say any thing that he feels like saying without considering its effect on others. He can easily make friendship with others and is popular in many circles.

## ATTITUDE TOWARDS MORAL VALUES

This trait includes high regard for moral values, social conventions, and altruistic motives. This trait may not appear to be a unitary trait though it seems to

reveal a significant area of one's personality which is not often assessed by the inventionies used. Person, secring, on this trait, keeps most of his resolutions and feels ashemed if he fails to keep a promise.

#### DUMI NANCEL

This trait represents love for power and position, pride and assertiveness. High score, on this trait, indicates that the person is \$ proud and self-willed. He feels superiority to others in certain respects and does not hesitate to express his opinions to his superiors. He tends to assert his views forcefully in a meeting or conversation.

#### PARANCAD TENDENCY:

The main components of this trait are suspiciousness and jealousy. It also refers to a rigidity of opinions
or refractdriness to logical analysis with respect to
certain interpersonal problems. A person, scoring on this
trait, considers others to be jealous of him. He seems
to think that no body is to be trusted and everyone
would tell a lie to save himself out of danger.

## DEPRESSIVE TEMPERCY.

This trait includes constant feelings of unhappiness and inferiority. A person, scoring high on this trait, feels sad most of the time and does not feel pleasure in

things which make others happy. He lacks enthusiasm in his work. This trait is in certain respects opposite to the Hypomanic Temperament.

#### EMOTIONAL INSTABILITY:

This trait includes lack of emotional control and easy susceptibility to arousal of emotions. This also refers to a person's inability to recover easily from emotional disturbance to the normal state. A person, secring high on this trait, is easily hurt by the remarks and actions of others and is easily upset emotionally without adequate reason.

#### TATALVERSION.

This refers to a tendency of withdrawing from social situations and an inability of taking active part or interest in social gatherings. A person, scoring high on this trait, prefers to be himself and to work alone and finds it difficult to make new friends. Such a person becomes an isolated personality, the rejected hangers — on of our society; he starts brooding over his problems without expressing them frosly to others. He is often self-conscious about his appearance or menner of talk.

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## CHAPTER II.

PURSUMALITY PACTURE AND AUAD INTO ACHIEV IN SATE & DURVEY OF RESEARCH.

(9)

///any researches have been conducted in the field of personality in relation to academic achievement. For review purpose, they have been arranged from the point of view of different personality factors and their relationship with scademic achievement.

#### STUDIES ABRUADA

Some research studies have identified significantly positive relationship between activity, industry and effort and high academic achievement. Behring (3,734-737) for instance, developed a quantitative scale of preferences for activities (APPS) to differentiate between high and low achievers on their activities. Hean APPS scale scores for high and low achievers, the results of the study showed, were significantly different ( p \( \int\_{\text{a}}\).COl), thereby indicating that the high schlevers were a more active than the low achievers. Similar results were obtained in another study (23, Pp.26-28) on high school graduates ( the highest, the middle, and the lowest 10 per cent) where a positive relationship was identified between personality and character traits ratings done by the teachers, and the pupils' school success. A difference of 41 points

Industry and Sffort was noted as contrasted to that of 20 points for the traits Fersonal Appearance and Logisl Adaptability.

In some studies positive association has been observed between hypomenic temperament and high achievement. In a study (12, p. 278) over-achievers were found more cheerful, happier, and self-confident than under-achievers. Conversely, Yeomans and Lundin (12, p. 278), who using the MPI, found that poorer students had high source on "hypomenic" scales as compared to the high achievers.

Research evidence shows that thore exists a positive relationship between positive attitude towards moral values and high achievement. In a study (31,p.466) on the personality patterns of normal and retarded readers, it was observed that retarded readers, as a group, were inclined to be more aggressive, less salf-insightful, and relatively poor than normal readers in knowing how to handle situations of conflict with adults. Holland (16, Pp.135-142), too, who used California Psychological Inventory on High School pupils, identified a positive association of high grades with Responsibility (Re) and Achievement via conformity (Ac). Intilarly, in a study on 337 Canadian minth-grade students which were divided into three groups (Honours, Medicares, and Failures).

a positive relationship was identified between Responsibility (Re) and achievement via Conformity (Ac) and higher academic achievement (19, Pp.59-64). Another study (23, Pp.26-28) too, confirmed that high school pupils with higher grades were rated by their teachers as more courteous, honest, and co-operative than their fellow graduates who obtained lower grades.

find out relationship between dominance and academic achievement. In a study on sample of 149 girls (25 % high and 25% low achievers), girls with higher grades were found to score relatively higher on the trait dominance than did the lew-achieving girls (11, p.410). Similar results were obtained in another study (27, Fp. 183) on a students of 11 plus where dominance was found to be positively correlated with academic achievement in arithmetic and English.

Low academic achievement, researches have shown, is associated with paramoic attitude on the part of students. Shew and Black (29. 124) in a study on the high school achievers and under-achievers with high intellectual ability (bright) reported that while bright achievers tended to deny their responsibility for their own inadequate behaviour, the bright under-achievers admitted their guilt but they blamed circumstances for it, and they showed hostile attitude towards others.



Likewise, hostility, in another study (28, Pp.263-266) was noticed characteristically more in bright underachievers than in bright achievers.

Emotionally stable pupils. if been observed. achieve more than the emotionally umable ones. Low grade pupils, it was noticed, had high scores on Taylor Menifest Anklety Loals (18. Pp. 448-460). It was also noted at some other place that students with high aptitude tonded to obtain comparatively high grades regardless of their anxiety level (32, P.278). In a study on 64 fulltime study, Centi (d. Pp. 187-188), too, who undertook it with a view to differentiating the highest from the lowest ranking students with respect to their personality and adjustments, observed that the lowest ranking students scored higher mean scores on five of the MAPI scales. (which indicated their poorer social and emotional adjustments) then did the corresponding highest ranking students. The anxious students, Rushton (27, p. 183) too, noted, were acedomically less able.

Both high and low achievers, research evidence indicates, score high on extraversion-introversion scale. Women subjects (Se), it was reported in a study, had significently higher mean score on the Sxtraversion-scale ( t 3.05, p .01) then the men Ss (4, Pp. 399-405). Lynn (20, pp. 213-216), and Astington (2, Pp. 235-236), too, arrived at similar results when they noted that

successful students tended to score less scores on extraversion in comparison to the unsuccessful ones. But contradictory findings were obtained in another study (27, p.183) as well, where it was found that high scores on intraversion lead to academic achievement. The difference in the above findings may so well ascribed to the use of different tests and sample.

#### HEEMANCH IN INDIA.

The gravity of temperamental difficulties was revealed in a study (S.p.48) whore it was noticed that as large as one fourth of the total sample had to struggle with temperamental difficulties, particularly, general emotional instability. Out of these, there were about 25% of the children who had no other cause responsible for their 'mok-wardness except emotional instability, Upposite results were obtained in two studies a where the Sen Personality Ir-its Inventory was used. In the one (5.Pp.85-86), positive relationthin was identified between high academic achievement and datreversion: in the other (22, p.58) high scademic achi vement and introversion were found to be positively correlated. Similar results were obtained by Devadasan (8. Pp 81-84) and Sinha (30. Pp .82-93) who identified a negative relationship between Extraversion and academic achievement. The latter also reported a negative association of academic schievement with Dominance-

submission. Gupta (13, p.23) on the other hand, seems to be confusing when he, for instance, remarks that, " the achievers have a tendency towards extraversion but sometimes they become introvert."

### Inferential concluding Statement,

In the light of the above raview, some facts come into light:

- (1) The high schievers are comparatively more sative and persistent in their efforts;
- (2) The low achievers are emotionally less stable than the high achievers:
- (3) The high achievers feel greater responsible lity for their assignments, and
- (4) The high and low achievers do not differ significantly in respect of extraversion-introversion.

But, contradictory findings have also emerged from the above studies, e.g.,

- (1) low achievers are some-times relatively more hypmanic by temperament than high achievers, whereas in most of the cases, high achievers are more cheerful and self-confident than the low ones.
  - (2) The high achievers some-times tend to show aggressive behaviour towards their responsibili times

Contradictions in the results may be ascribed to the defect in the selection of sample, design of the study, or in the instruments used. Thus, the question is yet open. The present study has been selected to find answer to this open question.

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# CHAPTER III

# PLAN AND PROLIDUIE.

# CHIERAL PROCESURE,

7HE first procedural problem the investigator was faced with was of keeping intelligence constant as achievement is obviously a function of intelligence. The students of llass IX ( N 330) were ploked up from which the earnie of this study was drawn. It was thought fit to determine the status of ecademic achievement of these 330 supils from the usual half yearly exemination w marks of the present academic esssion, i.e. 1957-68. With a view to keeping the factor of intelligence constant, the Jalote Group Test of Mental Ability (Hindi version) was administered to 330 students (boys 224. and girls 108). Then I.C. units for each of the 330 students were completed. The matches of the students were arranged in descending order. for boys and girls separately and I.O. is for each of them were put sgainst their respective marks. Then, measures of central tendency and variability for the I.C. to and marks of both the ser groups (taken as a whole and reparately as well) were computed so as

to have an idea about the nature of the distribution in the two sex groups and students as a whole. Thereafter, upper and lower 33% of the students (Boys 74 in upper and 74 in lower groups Girls 35 in upper and 35 in lower group) were selected on the basis of their marks. The 32 per cent formula in stead of 27% was used because of small sample in the present study. Moreover, (7, pp. 293-296) Cureton. In one of his studies hes tried to justify the appropriateness of 33 per cent formula. As such, it was thought convenient to use 33 per cent formula for the purpose. Then, an attempt was made to squate the High and low Katigita Achievers individually in respect of their l.C's. It was found rather very difficult to equate the students on their I.C. is exactly; hence, the I.C. is lying within range of an interval of 5 points (both in the upper and lower 33%) were equated and thus 56 boys in the upper 33% were equated against 56 in the lower 33%; similarly, 28 girls in the upper 33% were equated against 28 in the lower 33%. Thus, the sample, finally selected, consisted of 168 students (boys 112, and girls 56). The means, medians and standard deviations were computed for the I.C. s of all the four subgroups (boys - high and lown and, girls - high and low), Also, t-values were computed with a view to determining the extent of the difference between intelligence level of the high and low achievers in both the mex groups and these were found to be quite

df 110; and in the case of girls, t .12, def. 54).

Further, five group categories were formed with a view to comparing the high achievers with the low ones in respect of their scan scores on personality characteristics. These five group categories were - high and low achievers (total); high and low boys; high and low girls, high boys and girls; and, low boys and girls.

Sight personality characteristics were selected for the present investigation. It was decided to use a personality inventory, keeping its marits and demerits in mind. " In some disreguter, as Super (33,p.228), too. remarks, "for a number of years among paychologists because of their apparent lack of validity, personality inventories are now viewed somewhat more favourably thanks to technical improvements in their construction and better knowledge of when and how to use them." As such, Sen Personality Fraits Inventory was used as a tool for collecting the relevant data for the study. It wee felt that the use of this instrument could smuly satisfy the purposes of the study. Vidya Bhargava (5, Pp.85-86) and Mohale (22, p.58) used it in their studies and found it an appropriate instrument for study purposes.

#### INSTRUMENTS USED. JALOTA GROUP TEST OF MEATAL ABILITY:

The Jalota Group Test of Montal Ability was considered useful as it met most of the resultements of the present investigation. Long of the considerations that prompted its acceptance may be enumerated.

- (1) The eforementioned test is an age-scale and the items are arranged in order of increasing difficulty.

  Thus, even intelligent students can hardly attempt all the hundred items within the specified time.
- (2) This test has only 100 items which make it easy to edminister in one session of the usual class period. The time specified for administering the test is 20 minutes.
- (3) The above-mentioned test was available in Hindi.
- (4) This test has been standardized on the Indian population. It has an added adventage in that it has been standardized on the population residing in northern part of India. Since the sample of the study belongs to the northern part of the country, the selection of the Jalota Test was most befitting.
- (5) The high reliability (\*938) of the test ensures its wide and popular use throughout the northern region of India.

(6) The validity of the test ranged from .50 to .78. The value for pooled validity,  $V_1$  was 6.95 as against the figure of 2.60 necessary for .01 level of significance.

further, the test includes the olements of

- 1. Vocabulary sinilars;
- 2. Vocabulary opposite answers;
- 3. Number series:
- 4. Classification
- 6. West Answers:
- 6. Inforences, and
- 7. Analygies, looking to a good deal of over-

lary similars, vecabulary opposites, lest Answers, and Inforences - consists of ten items; and each of the other three elements of Number Series, Classification, and Analogies consists of twenty items. Hach of the seven elements has two illustrative items for demonstration purposes. One of them is given as a solved example, and the other b to be solved by the testees themselves before they are allowed to start on the test proper.

DR. SEN'S PERSONALITY TRAITS INVENTORY:
The personality was studied by means of the

den Personality Traits Inventory in order to obtain some significant data about some of the important personality characteristics of subjects of the study, viz, Activity, hypomenic Temperament, Attitude towards Moral Values, Dominance, Paranoid Tendency, Depressive Tendency, Emotional Instability, and Introversion. A brief description of this instrument, viz Sen PII is given below.

The Sen Personality Traits Inventory(Hindi version) met most of the requirements of the present investigation. Some of the considerations that under-lie the acceptance of the Sen P.T.I. may be enumerated:

- (1) The Sen Personality Traits Inventory is a multidimensional, self assessment personality inventory.
- (2) This inventory has only 120 items which makes it easy to be administered in one session of the vaund class period, although no time has been specified for administering it.
- (3) The Sen P.f.I. was evallable to the researcher in Hindi.
- (4) This test has been duly standardized on the Indian population.
- (5) This test has high reliability (test-retest) on eight personality traits Activity (.892), Hypomenia

Temperament (.634), Attitude towards Horal values (.692)
Dominance (.865), Paranoid fendency (.783), Depressive
fendency (.821), Sectional Instability (.724), and
Introversion (.714), Such a reliability has ensured its
wide and popular use throughout the country.

(6) The personality traits Inventory has been validated egainst clinical criterion and the results were obtained in the expected direction.

The Son P.T.I. includes eight characteristics. vis. 1. Activity. 2. Hypomenic Temporament. 3. Attitude towards moral values, 4. Dominance, 5. Peremoid Tendency. 6. Depressive Tendeony, 7. Amotional Instability, and a. Introversion. Such of the eight personality charaeteristics (or traits) has 15 items. Thus, this inventory test consists of 120 items. Each of the statements of this inventory can be enswered 'Yes'. 'No' or '?' (indefinite). Although, in general, 'Yest enswer meant the presence of a particular trait element, in case of 7 statements - 9, 17, 31, 84, 91, 95 and 116 - No answer indicated the presence of a particular trait element and they were given a score of 2 - a score given for 'Yes' statement. Two exemples have also been given so as to make the respondents understond how to answer the statements.

# POPULATION AND SAMPLE : COMPOSITION AND CHARACTERISTICS:

The students of Class IX (N 380), studying

in three higher schools - Government Higher Secondary School, Mehrauli, Government Model Higher Secondary Lehool, (utab (both for boys), and Municipal Corporation Girls Higher Secondary School, Mehrauli - were picked up from which the sample of this study (N 168 students - 112 boys, and 56 girls) was selected.

The data regarding the characteristics of the sample were obtained by administering a Personal Data Sheet along with the Sen Personality Traits Inventory. Table 1 presents some dotails about 168 students.

Percentages for each element of information were also computed.

TABLE-I.
CHARACTERI: FICE OF THE EMPLE ( N 166 )

+25-

S.No.	Description.	Number,	% (of 188 students)
1.	<u> </u>		
	Male	718	66.67
	reaele.	56	33 .33
2.	MATHERIS OCCUPATION.		
	Cocupetionally High.	17	10.12
	Compationally Average	79	47.03
	Cacupationally low,	54	38.09
	Not reported,	8	4.78
3.	KATHSH'. EDUCATION.		
	Illiterate,	39	23.21
	byto Middle,	44	26.19
	Matric passed,	38	22.62
	Under Graduate,	6	3.57
	Graduato,	13	7.74
	Post Graduates & Higher Education (Ph.D. & the like)	11	6.55
	Not reported,	17	10.12
4.	MOTHER'S EDUCATION.		•
	Illiterate,	67	39.88
	Upto middle,	59	35.12
	Matric passed,	17	10.12
	Under-graduate	3	1.79

### Contd....Table-1.

	Graduate.	**	***
	Post-graduates, and Higher Education (Ph.D., & the like)	***	***
	Not reported,	22	13.09
5.	FATHER'S MUNITILY THOOMS:		
	High:		
	Above 600	4	2 <b>.38</b>
	501 to 600	5	2.98
	Avorages		
	401 to 500	6	3.57
	101 to 400	37	67.74
	<b>LOW1</b>		
	Upto and below 100	47	27.08
	Not reported,	á)	ä <b>.35</b>
6.	NUMBER OF THE PUPIL IN THE FACILITY OF THE		
	Une .	1	<b>.60</b>
	hoto three,	15	8.92
	above three	147	87.50
	∉one,	•	•
	Not reported:	5	2.98
7.	POSITION OF THE PUPIL AMONG BRUTHSHS AND SISTERS: (Ranking from below)		
	First,	16	9.68

# Contd..... Pable-1.

Second	16	9.52
Third,	22	13.09
Above third,	68	40.47
Lowest,	38	22.62
Not reported,	8	4.78

Table-2 presents characteristics of the 168 students in the two hex-groups, finally selected after equating them on the basis of their I.C.Units.

TABLE No.2. Characteristics of the (ample (N 188) in the two sex-groups.

5.	Description.		HI	0 H		Ļ	OW			Total
io.	ik Di galing di prik malin mili visi sapi sapi sapi majangah ngap mali maksuphandhandhandhandh	B*	5*	G+		3	3	O.		
l	Sex.									
	Asle.	56				58				112
	Fenala.	88				28				56
3.	Father's occupation	n.								
	Ucaupationally High,	8	14.28	3	21,43	2	3 <b>.57</b>	1	3.57	17
	Occupationally Average,	26	46.43	17	60.72	24	42.86	12	42.86	79
	Cocupationally Lows	20	35.72	3	10.71	27	48.21	14	50.00	64
	Not reported,	2	3.57	2	7.14	3	5.36	1	3.57	8
J*	Father's Aducation	11								
	Illiterate,	15	26.79	1	3.57	23	41.07	*	*	39
	Upto Middle,	16	28.57	10	35.72	8	14.28	10	35.72	44
	Matric passed,	11	10.64	8	28.58	13	23.22	6	21.43	38
	Under-graduate,	1	1.79	2	7.14	2	3.57	1	3.57	8
	Graduates,	*	•	3	10.71	5	8.93	8	17.86	13
	Postgraduates and Higher Education (Ph.D. and the like)	4	7.14	**	*	3	5.36	4	14.28	111
	Not reported,	9	16.07	4	14.28	2	3.67	8	17.34	10

#### Contd..... Table-2)

4. Mother's Education
-----------------------

	Illitorate	23	14.07	6	21.43	38	04.28	8	7.14	67
	Upto Middle.	12	21.43	14	٥0 <b>،</b> 00	18	21.43	<b>8</b> J	76.00	59
	Matric pessed,	10	17.86	Z	7.14	3	5.36	2	7.14	17
	Undergraduate,	2	3.57	•	****	1	1.79	•	**	3
	iraduates,	•	<b>₩</b>	**	-	-	*	**	100	**
	Post-graduates, and Higher Education (Ph.D. and the like)	*	•	•	**	**	•	*	•	*
	Not reported,	9	16.07	6	21.43	4	7.14	3	10.72	83
5.	Fathers' monthly Income:									
	High :									
	Above 600	2	3.57	*	*	2	3.57	**	•	4
	501-600	3	5.36	1	3.57	1	1.70	•	•	8
	Average :									
	401-500	3	5.36	*	**	2	3.67	1	3.57	8
	101-400	31	<b>86.36</b>	13	64.29	28	50.00	20	72.43	97
	low a									
	Upto and delow	15	26.78	7	25.00	19	33.93	6	21.43	47
	Not reported,	2	3.57	2	7.14	4	7.14	1	3.87	9
6.	NO. Of brothers & disters of the pupil in the family	<b>'</b> 1								
	One.	**	*	***	•	**	**	1	3.67	1
	Upto three	6	10.71		•	5	8.93	4	14.26	15

#### Contd..... Table-2)

	Above three	48	85.72	28	100.00	48	85.71	23	82 .15	147
	NOME .	*	•	**	•	•	•	***	*	•
	Not reported,	2	3.57	**	*	3	5.35	*	•	5
7.	Position of the pup among brothers and elsters (ranking fre below)									
	First,	6	10.71	3	10.71	2	3.67	5	17.88	16
	: econd,	8	14.28	3	10.71	*	•	5	17.88	16
	inird,	13	21.43	3	10.73	6	10.71	2	3.57	22
	Above third,	20	35.72	14	50.00	26	46 .43	8	28.57	68
	Lowest,	6	10.72	6	17.88	18	32.15	9	32.14	38
	Not reported,	4	7.14	*	**	4	7.14	***	•	8

\*: B = Boyl

\*: Percentage of 56 boyl.

\*: G = Girls

:/. = Percentage of 28 girls.

An examination of the foregoing Table-2 reveals that the percentage of girls in the high group, with occupationally-high fathers is higher than that of the girls in the low group, although they are equal in the low group. On the other hand, boys (30.7 %) with occupationally low lathers, are more than girls (25 percent). to regards their fathers' odication, more boys' fathers are reported to heliliterate than those of girls both in the high and low groups. Except in the case of a few boys. with post graduate fathers, girls appear to have got upper head with regard to over-all educational position of their fathers. The same current seems to have flown in the field of their mothers' education where, too more boys' mothers are reported to be illiterate than those of the girls both in the high and low groups. Like a fow boys, with fathers having post-graduate degree and nigher education, here, too, only a nowinal number of boys (3.67 % in the high group, and 1.79 % in the low group) are reported to have highly educated fathers who reas the girls have none in this entegory. The above troud, it seems, has disappeared in respont of the monthly income of the subjects, fathers where the percentage of boys, with fathers in the high income category, exceeds that of girls both in the high and low groups. But, the number of girls, with fathers earning average and low income, exceeds that of the boys. It was also observed that the trend among the two groups, is not clear with regard to the number of pupils brothers and

sisters in the family. But, the relationship between girls and boys in both the groups with regard to their status emong brothers and sisters is autte reverse. That is to say, whereas were boys in the high group are reported to have first, second or third position (ranking from below) among brothers and sisters than the girls, more girls share such status in the low group.

Leaversely were girls in the high group have low position among their brothers and sisters than boys and vice versa.

Some statistical measures were also computed and studied. Table-3 presents these measures of the total group at a grance.

TABLE No. 3.

# Statistical measures of some selected Variables of the total group.

No.	Variable.	ilenn 	Median	() <b>(</b> 1) <b>(</b>	Recige	
	868 (N 884)					
1.	Achievament (Marks)	250.3	240.5	60.00	(414.5-1205	2:4.00)
2.	Intelligence (1.0.)	105.15	103.57	18.80	(100.5-89.5	91 <b>.00)</b>
	106) (N 106)					
1.	Achiovouent (Marks)	301.30	283.3	82.80	(521.5-158.5	363,00)
2.	Intelligence	100.95	Jy. 66	19.63	(153.5-69.6	84.00)



Tables 4 and 5 present some statistical measures

of the upper 33 % and lower 33 % boys and girls 
(boys 74 in upper and 74 in lower g 33%; girls 35 in

upper and 35 in lower 33%)

CABLE No. 4

Statistical measures of some selected variables of the upper 33% and lower 33% boys ( N 74 74 148)

5. No.	Variable.	Mean.	4edien	S.D.	Range	
	fligh (33%, N 74)					
1.	Achie voment (Merks)	317.93	glü.9	30.66	(414.5-271.5	143.00)
2.	Intelligence, (1.(.)	113.29	114.5	19.28	(160.5=63.5	91.00)
	Low (334; N 74)					
1.	Achievement (Marks)	134.16	187.00	25.52	(220.5-120.6	100.00)
2.	Intelligence, (1.(.)	102.45	103.79	16.40	(132.5-69.5	63.00)

TABLE No. 6

Statistical measures of some selected selected variables of the upper 33% and lower 33%, Girls (N 35 35 70)

Variable.	Mean.	lodian.	C.).	Ranga.	<b>if</b> ulfision (delf)
iligh (33% j :1 35)					
Achievement, (harks)	402.50	403.25	43.50	<b>(521.5-335.</b> 5	186.00)
Intelligence, (I.C.)	106.55	103.08	24.15	(153.5-70.5	83.00)
Lower (33 % N 35)					
Achievement,	216.45	218.26	27.76	(255,5-158,5	97.00)
Intelligence, (I.(.)	<b>37.</b> 23	<b>47.00</b>	16,62	(128.6-69.6	89.00)
	Migh (33%   4 35)  Achievement, (harks)  Intelligence, (1.(.)  Lower (33 % % 35)  Achievement, Marks,  Intelligence,	High (33%   4 35)  Achievement, 402.50 (herks)  Intelligence, 106.55 (I.C.)  Lower (33 % % 35)  Achievement, 216.45 Herks,  Intelligence, 97.89	High (33%   4 35)  Addievement, 402.50 403.25 (Narks)  Intelligence, 106.55 103.08 (I.C.)  Lower (38 % N 35)  Addievement, 216.45 218.25 Harks,  Intelligence, 97.89 07.00	High (33%   H 35)  Adhievement, 402.50 403.25 43.50 (Harks)  Intelligence, 106.55 103.38 24.15 (I.C.)  Lower (38 % H 35)  Achievement, 216.45 218.26 27.76 Harks,  Intelligence, 97.29 07.00 16.52	High (33%; # 35)  Addievement, 402.50 403.25 #3.50 (521.5-335.5 (Marks)  Intelligence, 108.55 103.38 24.15 (153.5-70.5 (1.0.)  Lower (33 % # 35)  Achievement, 216.45 218.26 27.75 (205.5-158.5 Marks,  Intelligence, 97.89 97.00 15.62 (128.5-69.5

The following two consecutive tables 8 and 7 show vari-ous statistical measures for the final sample of the two sex
groups (with high and low sun-groups in each sex group),
equated on intelligence.

FARILE NO.6

statistical Measures of Nome selected variables of the high and low boys, equated on intelligence ( N 56 56 112)

40.	Variable.	Mean.	Medien.		Hange	
HIGH	(N 56)					
1.	Achiovoment (Marks)	318.93	317.30	31.68	(414.5-271.6	143+00)
2.	¥ Intelligence, ( I.(.)	109.86	105,17	13.46	(132.5-)0.5	63.00)
ia)W	(N 56)					
1.	Achievement (Marks)	192.70	195.33	20.58	(220.5-141.5	79:00)
2.	Intelligence, (I.C.)	110.22	107.00	13.38	(132.5-63.6	63.00)

# TABLE No.7

Statistical seasures of some selected variables of the high and low girls, equated on intelligence ( % 28 28 56)

io.	Variable,	ilo <b>an,</b>	naire.	S.D.	Range.	
HIGH	(N 28)					
1.	Achievament (Morks)	398.25	308.5	36.44	(463.5-335.8	125.00)
2.	Intelligence, (I.C.)	97.13	94.50	16.65	(131.5-70.5	61.00)
TO:4	( N 23)					
1.	Achievement (Narks)	213.47	217.00	28.42	(255.6-158.5	97.00)
2.	Intelligance: (Marks) I.C.	37.71	94.50	16.46	(131.5-70.5	61-00)



In order to find out the extent of engaltude of the difference between the two erunted groups, t-values were computed which were found non-eightident - (in the case of boye,(t .13), df 110, and in the case of girls (t .12,)df 54). Hence, it is justifiable to say that the high and low sub-groups in both the sex groups are comparable in respect of their I.g. Units.

#### CULLICITO OF DATAL

The data were collected from the aforementioned schools in the meanth of Jenuary and Jebruary, 1968. First, the Jalota Group fest of Jental Ability (Minds version) was administered to the students of Jensa IX, studying in Jovernment Higher Secondary Schools, Jehrands and Cutub, and Anistpal Jerporation Sirls Higher Secondary School, Mehrands, with the Cooperation of the principals, teachers and students.

The investigator explained the nature and purpose of the investigation to the teachers who introduced the investigator to the students of Class IX and thereafter the entire test administration was managed by the investigator bisself. The identical directions were issued to the students in all the sections.

It was felt that by this time the students were fully motivated and were prepared to do the needful.

idence, the test book-lets and answer-sheets were passed on to the testees. The investigator explained through solved examples how to answer the items. The testees were also asked to solve seven unsolved examples in the light of the solved ones. Then, the students were asked to start their work. The investigator collected the test book-lets and answer-sheets from the testees at the end of the twenty minutes.

After a fortnight, the Sen Personality Trnits
Laventory was administered to the same students.

then they were asked to start their work. It was cheerved during supervision that the time taken by various groups, in filling up the Sen P.T.I., veried from 30 to 40 minutes. It was also observed during the testing-session that the girls in high group took 25 to 35 minutes while the boys in the high group took from 30 to 40 minutes, but no such difference was noted between the two sexes in the lower group.

### PROCEDURE OF DATA ANALYSIS.

Four statistical measures, viz, measures of central tendency, variability, percentages, and t-test were computed. The data regarding personality characteristics collected through the use of the Sen P.T.I. were scored

under two groups. The manns and standard deviations of the scores on the personality traits were computed.

In order to identify personality characteristics of high and low achievers in the two sex groups, means on each of the eight personality characteristics were calculated and t-test of eighticance was applied.

The enalysis of the data and its interpretation are presented in the next Chapter.

# CHAPTER IV.

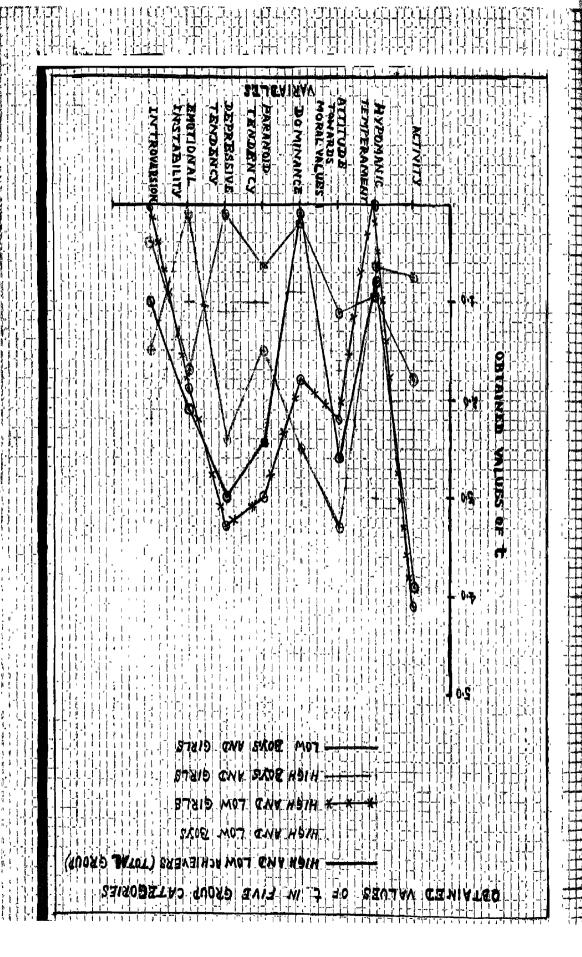
ANALYSIS AND THERPRETATION OF DATA:

# MALISIS OF DATA

The data obtained from the administration of the Sen Personality Traits Inventory to boys and girls were tabulated into two groups - high achievers and low schievers - both for the boys and the girls.

In order to study differences between high and low achievers with regard to their personality characteristics, t-values were computed between the mean scores of the fire group categories - high and low schievers (total); high and low boys; high and low girls; high boys and girls; and, low boys and girls.

In order to make the t-values meaningful, a graphical profile was prepared. Figure-1 presents the profile of t-values in respect of the afore mentioned five group entegories.



#### DISCUSSION OF RESULTS:

Each one of the eight personality characteristics or traits were taken into account and an attempt was made to compare five groups dategories with regard to the differences in their personality characteristics and thereby to identify the characteristics with them. A mas scrutiny of Pables 3,9,10,11 and 12 reveals many interesting results.

T-Values indicating significance of the difference between mean scores of the high and low achievers (total group) on personality characteristics.

ty nic nment de towards values.		of oye & wirls (Low Group) 21.12 4.92 4.28	value or C. H. 3.90	156 156	7 1.98	2.61	\$ <.01	S. or r.s 10
nic mment de towards	23.93 4.40 18.14 4.18	21.12 4.92 17.62	3.90	166				
nic mment de towards	4.40 18.14 4.18	4.92				S*0T	<,01	S.
mment de towards	4.18		.79	166	2 /44			
	3 <b>4.4</b> 6			NA A. A.	1.08	2.61	-	W.\$
A 智 T [Y 在 会 #		23.00	2.61	166	1.98	2.61	<∙ગ	\$.
	3.20	3.69						
. Dominance.	18.22	18.17	•09	166	1.08	2.61	-	<b>%</b> ∙\$
	4.14	4.09						
5. Paranoid tendency.	17.00	18.67	2.45	166	1.98	2.61	٤٠٥5	S
	4.04	4.04						
3. Depressive Tendency.	15.58	17.64	3.03	166	1.98	2.61	<.01	S
	4.64	4.12						
7. Emotional Instability.	12.22	13.79	2.12	166	1.98	2.61	≤ .05	• 5
	4.98	4.68						
ner, an an Branch	13.36	14.48	1.00	166	1.98	2.61	_	N·S.
An Lay Toll	4.96	5.14						
)		11ity. 4.98  ersion 13.36 4.96	11ity. 4.98 4.58  ersion 13.36 14.48 4.96 5.14	11ity. 4.98 4.58  ersion 13.36 14.48 1.00 4.95 5.14	11ity. 4.98 4.58  ersion 13.36 14.48 1.00 166 4.96 5.14	11ity. 4.98 4.58  ersion 13.36 14.48 1.00 166 1.98 4.96 5.14	11ity. 4.98 4.58  ersion 13.56 14.48 1.00 166 1.98 2.61 4.96 5.14	11ity. 4.98 4.58 Prsion 13.36 14.48 1.00 166 1.98 2.61 —

N.B. \* Taken Jecom p. 46. for the bake of Convenience.

15. = Significant

2.N.S. = Non Significant

## Contd. .... Table No. 8.

5 .No .	Porsonality	Megnitule	Interpretation		
	cheracteristics.	of signi- ficance.	Lignificant .lon-mignifi- cance.		
1	2		10	11	
1.	Activity.	Bayond .01	i isaid niganni.	Rejected.	
2.	Hypomnic Te paramant.		Non-signi- -ficant.	Acua <b>pted.</b>	
3.	Attitude towards	10. tm	Significant.	fic. ected.	
4	Dominance.		Mon-signi- ficant.	Accepted.	
5.	Carenoid Tendonoy.	nt .05	vignificent.	ne.octed.	
3.	Dapress <b>ive</b> Pandency.	Beyond +01	Ligaifienat.	Rejected.	
7.	dnotional Instability.	at .05	Significant.	Rojected.	
8.	Introversion.		Non-signi- Ticent.	Accepted.	

G . OH ELEAT

T-values indicating significance of the difference between Mean Scores of Migh and Low Boys on personality characteristics.

	and the second s	and the second second second second		and the same of th		المستركة والمستركة والمستر	ا	*	
8.	Personality characteris-	Means &	Means &	Computed t-value	để	Tabulat values.		Inter- tion.	
	-tics.	of boys (High Group)	of boys (row)	or C.R.	الدائد الكذر والأسر والدر والدر وسار	•05	.01	<b>þ</b> .	5. or N.5.
1	2	3	4	5	6	7	8	9	10
1.	Activity	23.68 4.61	21.64 4.72	2.31	110	1.98	2.63	٤٠٥5	\$.
2.	Nypomenia Temperajent.	13.82 4.32	16.32 4.46	3.02	110	1.98	a.83	∠.01	<b>.</b> S.
3.	Attitude towards moral values.	23.79 3.01	22.71 3.87	1.65	110	1.78	2.63	<b></b>	K · S
4.	Dominance.	17.46 4.63	13.13 4.08	-87	110	1.98	2.63		ん・8
8.	?granoid Tondency.	17.57 6.18	18.46 4.22	•39	110	1.98	2.63		<b>∤</b> .5
6.	Degressive Tendency.	16.75 <b>4.</b> 91	17.38 4.21	1.08	110	1.98	2.63		N·S
7.	Emotional Ins tability.	12.18 4.99	13.05 4.40	.98	110	1.98	2.63		4.5
8.	Introversion.	12.50 4.94	16.61 6.30	2.13	110	1.98	2.63	<b>خ</b> ۰۰5	\$,

N.B. Taken from page 48 for the loke of Convenieure.

S. No.	Personality	Angnitude of		Interpretation		
	cheractoristics.	signific <u>an</u> us	Dignificent or non-sig- ficent.	Null Hypo- theses rejected or somepted.		
1			10	11		
1.	activity.	at .05	ignificant.	Rejected.		
2.	lypomenic leoperament.	Seyond .Ul	bignificant.	Rejocted.		
3.	Attitude towards moral values.		hion-wignifi- cent.	encepted.		
4.	Dominace.		Non-signifi- cent.	Accepted,		
5.	Paranuid fendancy.		Son-Signifi- cent.	Accepted,		
8.	Dopressive Condency.		Non-signifi- cent.	Accepted.		
7.	Mestionel Instablility.		non-eignifi- cent.	. Accepted.		
3.	Introversion.	at .05	Gignificant.	Rejnoted.		

### TABLE No. 10.

T-Values indicating significants of the difference between Mean Scores of high and low Girls on personality characteristics.

S. No.	Porsonality characteris-	Means &	.leans & S.D.'s	Computed t-value	df	Tabula velue:	rad r*	Interp tion	reta.
	ties.	of bean girls (High group)	of girls (Low group)	or C.A.		-05	.01	p	S. er N·S.
1	2	3		5	8	7	8	9	10
1.	Activity	24.43 3.98	10.34 4.76	4.08	<b>84</b>	2.01	2.68	<.01	<b>. 5</b> .
2.	hypomanic Lemperament.	18.21 3.36	14.21 3.94	0.00	54	2.01	2.68		N-!
3.	Attitude towards moral values.	25,64 3,44	23.64 3.30	5.53	54	2.01	2.68	≤ '05	\$.
4.	Douinance,	19.96 3.38	13.00 4.20	1.32	54	2.01	2.38	******	N·S
5.	Paranoid Tendency.	15.88 4.30	19.07 3.72	3.00	54	2.01	2.68	<∙∘1	S
8.	Depressive Tendency.	14.21 3.72	17.57 3.33	3.26	54	2.01	2.68	<.01	S
7.	Enutional Ins	-12.24 5.18	14.86 5.02	1.33	54	2.01	2.68		N:5
8.	Interversion.	14.24 5.34	14.21 4.34	•02	54	2.01	2.68		4.8

N.B. \* Taken forom p. 50 for the Sake of Convenience.

Contd. .....

# Contd..... Table-10)

ii. No.	Personality	mingaitude of	Interpretation		
	cheracteri: tice.	Significance.	dignificant or non-sig-ficant.	Null Hypo- theris rejected or accepted.	
	2	9	10	11	
1.	Adtivity.	Beyond .01	: ignificant.	Rejected.	
2.	lypomenic Temperagent.		Non-eignifi- cent.	Accepted.	
3.	Attitude towards moral values.	at .05	oignificent.	A Rejucted.	
4.	Dominance.		Non-signifi- cant.	Accepted.	
5.	Paranoid lendency.	Beyond .01	Significant.	Rejected.	
6.	Depressive Lendency.	Neyond +01	Significent.	Rejected.	
7.	Soutional Instability.		Non-signifi-	Accepted,	
3.	Introversion.		Non-signifi-	Accepted.	

TABLE No. 11.

T-Values indicating significance of the difference between mean socres of high boys & girls on personality characteristics.

Personality	deans &	The second secon		-	کر فارد کی استان این کار بازی سازی			
cuaracteris-	D. ' &	Monns &	Co puted t-value	đ <b>f</b>	values	}	Interp	etation
tics.	of boys (Aigh group)	of girls (High group)	or C.R.		-05	.01.	<b>p</b>	S. N.S.
3	8	4	5	8	7	8	9	10
ctivity.	23.38 4.31	84 .43 3 . 38	.74	82	1.99	2.64	-	N·5.
ypomenic experavont.	13.82 4.32	13.21 3.36	<b>.</b> 8 <b>5</b>	82	1.99	8.64		N-S.
ttitudə ovards soral alu <b>s</b> s.	20.79 3.01	25.89 3.44	3.23	82	1.30	2.64	∠.01	S.
ominance,	17.46 4.63	19.88 3.38	2.47	82	1.99	2.64	4.05	S.
aranoid Suden <b>cy.</b>	17. <i>6</i> 7 6.18	13.86 4.30	1.50	32	1.99	a .84		N·S.
oprossive ondency.	18.78 4.01	14.21 3.72	2.42	82	1.00	2.64	≤ ·°5	<b>.</b> S.
motional Ins-	12.13 4.30	12.24 5.18	.05 •	82	1.99	2.64		M·5
ntroyareion.	12.50 4.34	14.24 5.34	1.51	82	1.30	2.64	_	N·\$.
	etivity.  ypomenic emperament.  ttitude owards moral alues.  ominance,  aranoid endemoy.  opressive endemcy.  motional Ins- ebility.	tics. of boys (Righ group)  2 3  ctivity. 23.68 4.61  ypomenic 13.82 expersion. 4.32  ttitude 23.79 owards moral 3.01 almes.  ominance, 17.46 4.63  aranoid 17.67 cudency. 5.18  cpressive 13.78 ondency. 4.01 motional Ins- 12.18 ability. 4.00 atroversion. 12.60	tics. of boys of girls (Righ group) group)  2 3 4  ctivity. 23.58 24.43 4.61 3.38  ypomenic 13.82 13.21 3.36  ttitude 23.79 25.56  owards moral 3.01 3.44  almss.  ominance, 17.46 13.86 4.63 3.38  erancid 17.57 15.86 3.00  corressive 18.76 14.21 condency. 4.31 3.72  motional Ins. 12.13 12.24 ability. 4.33 5.18	tics. of boys of girls or C.S. (Sigh (High group) group)  2	tics. of boys of girls or C.R. (Righ (High group) group)  2 3 4 5 6  ctivity. 23.68 24.43 .74 82 4.61 3.38  ypomenic 13.82 18.21 .66 82 expersiont. 4.32 3.35  ttitude 23.79 25.56 3.28 82 covards moral 3.01 3.44 alues.  cminance, 17.45 13.86 2.47 82 4.63 3.33  erancid 17.57 13.86 1.50 32 endemey. 5.18 4.30  copressive 15.78 14.21 2.42 82 endemey. 4.31 3.72  motional Ins. 12.18 12.24 .05 82 ebility. 4.30 3.18 .	tics. of boys of girls or C.R. (Sigh (High group) group)  2	ties. of boys of girls or C.R. (Sigh (Righ group) group)  2	ties. of boys of girls or C.R. (Sigh (Righ group))  2 3 4 5 6 7 8 9  etivity. 23.38 24.43 .74 82 1.99 2.64 — 4.61 3.38 18.21 .66 82 1.99 2.64 — 20.79 25.64 3.28 82 1.99 2.64 — 20.79 25.64 3.28 82 1.99 2.64 — 20.79 25.64 3.28 82 1.99 2.64 — 20.79 25.64 3.28 82 1.99 2.64 — 20.79 25.64 3.28 82 1.99 2.64 — 20.79 25.64 3.28 82 1.99 2.64 — 20.79 25.64 3.28 82 1.99 2.64 — 20.79 25.64 3.38 1.50 32 1.99 2.64 — 20.79 25.64 3.38 1.50 32 1.99 2.64 — 20.70 25.64 3.38 1.50 32 1.99 2.64 — 20.70 25.64 3.78 14.21 2.42 82 1.99 2.64 — 20.70 25.64 3.78 14.21 2.42 82 1.99 2.64 — 20.70 25.64

N.B. \*Taken forom p. 52 for the lake of Convenience.

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Contd. ..........

# Contd...... Table 11)

<b>.</b>	Personality	Angnitude of	Interpretation		
io.	characteristics.	aignificance.	bignificant or non-sig- ficant.	Hull Hypo- thesis rejected or accepted.	
1	2	9	10	11	
1.	Activity.		Hoa-signifi- -cent.	Accepted.	
2.	Nypomanie Temperament.		Non-signifi- -cent.	Accepted.	
3.	Attitude towards	Beyond .01	Significant.	Rejected.	
4.	Duminance.	at .05	Significant.	Rejected.	
ó.	Paranoid Tendency.		Non-signifi- cant.	Accepted.	
ō.	Depressive Tendency.	at .05	Significant.	Rejected.	
7.	kactional Instability.		Non-signifi- cant.	Accepted.	
8.	Introvorsion.		Non-signifi- cent.	Accepted.	

### ST. OF ELEAT

I-Values indicating significance of the difference g between Mean scores of low boys and girls on personality characteristics.

10.	Personality cheracteris-	Arens &	deres.	Comparted t-value	để	l'abula value i	ted t-	Interf	neta -
والقا ومنادات	ties.	of boys (low group)	of girls (low group)	or C.A.		708	.01	<i>†</i>	S. Or N.S.
1			4		8		8		
1.	Activity	21.64 4.72	19.64 4.76	1.83	82	1.39	2.64		N.S.
2.	Nypomenic Temp <b>erm</b> ment,	16.32 4.46	13.41 3.94	*34	82	1.99	2.64		N.S.
3.	Attitude towards moral values.	22.71 3.87	23.44 3.30	1.03	828	1.99	2.64		N·S.
4.	Domineros	18.18 4.03	18.00 4.20	.19	82	1.99	2.64		N·S.
5.	Perancid Fendency.	13.48 4.22	19.07 3.72	.65	82	1.39	2.64		N·5
6.	Deg <b>rassiv</b> o T <b>endancy.</b>	17.68 4.21	17.57 3.98	•11	32	1.00	2.64		N.S.
7.	Sautional Ins- tablity.	13.05 4.40	14.36 5.02	1.70	82	1.99	2.64		N-\$.
8,	Introversion.	14.61 5.30	14.21 4.94	<b>.</b> 37	<b>3</b> 2	1,99	2.64	-	N·8.

<sup>\*</sup> Taken from f. 54 for the Sake of Convenience.

## Contd...... Table 12)

۵.	Porsonality	legnitude of	Interpret	ntion
.10 ·	characteristics.	eignitionnee.	oignificant or non-sig- nificant.	hull Hypo- thecis rejected or accepted.
1.	Activit <b>y.</b>	MO:	•rignificent•	Re Accepted.
2.	(ypomenic Tumperament:	.i <b>o</b> n	-6ignificant.	Accepted.
3.	Attitude towards moral values.	(ion	-significant.	Achepted.
4	))odínauce.	don	-significant.	Accepted.
5.	Paranoid Condendy.	Jun	-significant.	Adcepted.
8.	Dop <b>reselve</b> Tend <b>ency</b>	Nor	-significant.	Ac repted.
7.	dectional Instability.	Not	-eignificant.	Accepted.
8.	Introversion.	1 <b>0</b> 1	-significent.	Addepted.

### ACTIVITY:

Table a reveals a significant difference (t 3.00, df 165; p is less than .01) between the means of total group of boys and girls in the high and low groups which, in turn, confirms the common belief that high achievers, irrespective of sex differences, are comparetively more active, persistent, energetic, diligent, and hard-working than low achievers Jutudied separately, too. boys in the high group have scored more than those in the low group (t 2.31, df 110; p is less than .05); similarly, high achieving girls are more active and intensive in their work (as indicated by t 4.0), df 54, p is less than .01) then low achieving girls. Further, it is really interesting to note that high achieving boys and girls do not differ significantly from one another with regard to industry and effort. Thus. it halps in refuting the ageold notion that boys are more industrious than girls. The same trand is visible in the case of low-achieving boys and girls who do not differ significantly (t 1.83, df 82) from one another with regard to industry, porsistence, and effort (here, represented by their school marks). That is to say, while boys and girls, in the high groups are equally active, pains-taking, and industrious; boys and girls, in the low group are equally lazy, sluggish, and shirkers.

other studies, dealing with this trait, corroborate

the results of the present study. Behring (3, Pp.734-737) for instance, found high achievers, "energetic having a need for understanding and solution of problems, interested in tacorotical speculations, and socially withdrawn, and low achievers were observed shunning from self-criticism." flusselman (23,79.24-28), who asked the teachers to rate the highest, the widdle, and the Lowest 10% of the students on personality traits, reported a significant differenceof "41 points botween the high end the low groups in the trait Industry and Efforts which "Indicates a strong teacher attitude about hard work and good grades." Thus, he seems to equification present results by observing that the degree of comparative experiority or inferiority in those traits has a positive relationship to the level of sendemic success(lbid. Pp.26-28). Hackett (14.Pp.68-69) round high achievers "interested in verbal activities." Parkins (25. Pp.5-6) observed, "extracurricular behaviour syndromen characterizing the under-achievers, they were cheerved some frequently cagazed in activities unrelated to academic achievoment than achievors. But, whereas the high boys and girls as well as low buys and girls, in the present study, do not differ significantly, the study by Parkins raveals that "girls spend more classroom time in REWR (Reading and writing in assigned area - active), LWP (Cocial Work Oriented - PEER: discussing some aspect of school work with class-mate), and SWT (discussing with teacher) than do boys who engage wore frequently in WOA (Intent on Work in enother Curricular area).

In general, the results of the present study and those of other studies support the belief that learning activities and work-oriented student behaviour (particularly, industry, presistance, and effort) that facilitate learning are associated with increased achievement, whereas those kinds of work-oriented student behaviour that are less facilitative of learning are associated with low academic schievement.

### HYPOMANIC THAPSANGSII.

Accept the high and low achieving boys, all other four groups do not indicate any significant difference between mean occase of their respective high and low subscrups. Inbla 2 indicates that high achieving boys (t. 3.02, df. 110; p is less than .01) are note cheerful, sociable, carefree and happy-go-lucky than low-achieving boys.

it is revealing to note that high and low girls are noted identical in respect of their hypomenic temperament as their span scores are equal ( M 18.20 ). Also, high boys and girls (t .85, df &2) and low boys and girls (t .94, df 82) are almost equal in respect of their hypomenic temperament.

But Yeomens and Lundins (12, p. 278) using M.M.P.I., found that poorer students had a high score on the

"hypomenic" scale, whereas high achievers tended to score high on Mf(feminity). But Fink (10, Pp.110-111), on the other hand, noticed that underachieving boys appear to be the most inadequate and immeture; and, they also feel socially left-out.

But, this treit seems to have no specific role to play in the groups other than that, consisting of hope in high and low sub-groups. Hence, one has to be cautious while generalizing the results of the present study to the general population.

### ACCITUDE TOWARDS BURAL VALUES:

The total group of boys and girls, divided into high and low sub-groups, shows a distinct trend with regard to boys, and girls, attitude towards morel values. Table 8 indicates that boys and girls, taken together, in the high group, comparatively score high, scores on this trait (t 2.61, df di; p is less than or equal to .01) than those in the low group. The cradit for it should go to the girls in the high group whose mean score (M 25.34; 5.0. 3.44) is higher than that of boys in the high group (M 23.79; b.D. 3.01). Thus, whereas boys in the high group (t 1.66, df 110; p is less than .05) are equal to the low-schieving boys with regard to their attitude towards moral values, girls in the high group differ significantly (t 2.22, df 54; p is less than .05) from the low-schieving

Time, it seems fair to say that the total group of high-achieving boys and girls has positive attitude towards moral values to a greater excent than that of the low-schieving boys and girls. This confirms our belief that high achievers are more dutiful and respectful who try to keep their promises and resolutions, although results in the present study further reveal that high-achieving i girls are comparatively more dutiful and regardful of moral values and school conventions than the high-achieving boys. dut, at the seme time, low achieving boys and girls have similar attitude towards moral values, i.e. negative attitude towards moral values. This shows that low boys and girls are equally arrogant and aggressive; and both of them have the least of regard towards moral conventions of the school. It can also be inferred that they misbehave frequently with their teachers and class-mates.

Other studies, in the field, corroborate theme results. Spacks (31, p. 466), for instance, concluded that

"the handicepped readers are, as a group, inclined to be more aggressive and defensive than children of their ages, less self-insightful, and are relatively poor in knowing how to handle situations of conflict with adults. In also tend to exhibit a passive but defensive, attituder negativist towards authority figures." Conversely, a study reveals that "the result indicates that high achievers tended to deny aggressively responsibility for the offence with which they were charged significantly more than underachievers." (29. p.124).

### DUMINANCE.

It is revealing to note that all other four group categories except that of high boys and girls (compared with each other), do not show significant difference between means of their respective high and low sub-groups. Only in the case of high boys and girls, a significant difference (t 2.47, df 82; p is less than .05) exists which indicates that high-schieving girls are comparatively more dominant (M 19.86; S.D. 3.38) than high-schieving boys (M 17.46, S.D. 4.63). Thus, they claim superiority over boys. The high girls have also scored more (M 19.86; S.D. 3.38) than the girls in the low group (M 18.00; S.D. 4.20). Although, the difference between the means of the two sub-groups is not statistically significant; yet, this, atleast, helps as understand that high-schieving girls cherish a sense of dominance and superiority over low-schieving girls, no

matter howecover less intensity it may have, Un the other hand, boys & - whether they are high achievers or low onesdo not differ eignificantly from one enother, which goes to indicate that they are equally dominant, irrespective of their each mis achievement. This, if we go deep into the problem, one be eved to the fact that low-achieving boys compansate their sense of dominance by displaying their superiority in non-eredemic areas, e.g., games and sports. woys and girls, taken together in high and low sub-groups. no significant difference whatsoever (t .09, df 166) exists. Also, no such difference exists between the low boys and girls, which loads us to the fact that low-achieving boys and girls are equally dominant a and both of the sexes. in this sub-group. A try to compensate it by way of participation in mon-academic assignments. Thus, it is safe to infer that high and low achievers generally do not differ significantly from one another with regard to their dealnant behaviour.

contradictory results, astington (2, Pp. 235-236), for instance, arrived at the conclusion that no evidence was available to support the view that unsuccessful students, (or, low achievers) sought refuge in dominance for their lack of school success. But, Rushton (27, p.183), on the other hand, identified a positive relationship between dominance and academic achievement (here, arithmetic where r .145, and, English where r .149). That is to say,

the high schievers were found to have scored on dominance more in comparison to the low achievers. Plasherty and Routzel (11, p. 410), too, arrived at similar results when they reported a highly significant t-value in favour of high schievers for the traft dominance.

In India Vidya Shargava (5 Pp. 85-86) did not conserve any significant relationship bet een dominance and meademic achievement. Linha (30, 20, 32-93) reported similar results as it was noted that no significant relationship, whetsoever, between dominance and meademic achievement (r .01) exists.

#### PAHANUID TANDENCY.

There exists a significant difference (t 2.45, df 166; p is less than .05) between the mean scores of the total group of high-achieving boys and girls, and that of low-achieving boys and girls. Also, a significant difference (t 3.00, df 54, p is less than .01) exists between high and low achieving females. Except these two group-cotegories, there exists no significant difference (t .99, df 110) between high and low achievers in any of the three group retegories. The high and low boys are equal in respect of the presence of paramoid tendency in them. Similarly, high boys and girls do not differ significantly (t 1.50, df 82) from one another, although high-achieving boys suffer from paramoia a bit more than the

high-achieving girls. So also, low-achieving boys and girls are squal victims of paramoia (t .65 df 82). But it is clear that low girls suffer from paranois more than the low boys. Thus, it is reasonable to infer that most of the lowachieving girls view the world hostile 2 towards them and consider others responsible for their failure. It equally holds good also to the total group of boys and girls, in high and low mix-groups. Diam and Black (20.p. 124) probably confirmed the same idea when they concluded." There seems to be inirly elemr-out indiration that the (high)achievers tend to dany aggrassively responsibility for their own inedequate behaviour, while the underschievers admit their guilt but claim that directestances beyond their control were responsible for what happened." The low-achievers have a tendency to reject the self, to feel inadequate, and to conceive of the world as hostile and dangerous. Thus, they have what Rokeach (26, p. 76) has termed a " "paramoid out-look on life" and will always charish a sense of guilt. It is, therefore, no wonder to believe that their peranoid outlook affects their academic schievement a lot.

### DEPRESSIVE TENDENCY:

A significant difference exists between the total group of male and female high achievers and that of male and female low achievers, as magnitude of the difference is found to be significant (t 3.03, df 166; p is less than

•01). But little or no difference exists between the mean scores of high and low boys. But, again, high-schieving girls differ significantly (t 3.26, dr 54; p is less than •01) from he the low-schieving ones. The sidier trend is visible between the high-schieving boys and girls where the former differ significantly (t 2.24, df 82, p is less than •05) from the latter 1.5. from the low-schieving girls. But, difference between the low boys and girls (t .11, df 52) has disappeared entirely.

Thus, it is clear that high achievers are less depressive and passive than the low achievers. And the credit of being less depressive goes more to the high girls than to the boys in the high group, although low boys and girls are equally depressive. The probable reason is that the g high girls khan male high achievers suffer from the feeling of heavier responsibilities and the grim future that awaits them after the completion of their studies more than do the female high schievers.

### EMOTIONAL INSTABILITY:

It is revealing to learn that the total group of achievers in the high end low subgroups, all other four groups stand on the same footing with regard to their entional adjustment in the school. Heyond doubt, there exists a significant difference ( t 2.12, df 166; p is less than .05) between the total group of the male and female high achievers and the male and female low

significantly (t .08, df 110) from those in the low group; similarly girls in the high group, as Table 10 rawals, do not differ significantly (t 1.03, df 54) from the low-achieving girls, although their mean scores indicate that the high-achieving girls (H 12.24; 1.0. 5.13) are emotionally more stable than the low-achieving case (H 14.86; J.D. 3.02). The computed t-values indicate that the high boys and girls do not differ significantly (t .05, df 82) from one mother, and so with male and female low achiever as indicated by t 1.7, df 82).

But one thing is very clear and that is that the high achievers, irrespective of sex differences, are emutionally better adjusted as compared to the low achievers, other studies corroborate the present results. Hackett (14, Pp. 68-69), for instance, found that low achievers were, "emotionally responsive to their environments and were compelled to do something about dispelling their tensions. The tempo of their life seemed to be faster than that of the high achievers, although their activity was not necessarily productively oriented. (They) were rather sonsitive, feeling that emotions should be concealed as a sign of weakness. The high achievers, on the other hand, were found "emotionally less easily aroused." They were found to be able "to live at a more relaxed, confident tempo." Carter (12, p. 278) found that

"over-schievers .... were generally better adjusted socia-lly and emotionally", and, "over-schievers are happedr
happier in school, more self-confident, and have a better
morale." Centi, (6, p.188), too, has noticed similar trend
in this regard. "Unstable and maladjusted students," he
observed, " have been found to do less well in their
studies in proportion to their intelligence than have
students who were well balanced."

#### INTROVERSION:

Except boys, in the high and low sub-groups, other group categories show no significant difference between the mean scores of their high and low sub-groups on introversion. No doubt, a significant difference exists between the means of high and low-achieving boys ( t 2.18, df, 110; p is less then .05). But, there exists inc significant difference ( t 1.00, df 166) between the total group of male and female high achievers, and that of male and female low achievers; similarly; no significant difference, whatsoever, (t .02, df 54) exists between high and low achieving girls. Also, male and female high achievers do not differ significantly (t 1.51, df 82) from one another in respect of their introverted nature, and, similarly, male and female low achievers are equally introverted (t .37, df 82).

Thus, it needs special caution to infer that highly introverted students are high achievers or vice versa. In the present study, high-achieving boys differ

significantly from the low-schieving ones. That is to say, high boys are less introverted (M 12.50; S.D. 4.94) as compared to the low-schieving ones (M 16.61, E.D. 5.30). Maybe, make low schievers hesitate to disclose their problems before their teachers and class-mates and neurish them in their heart of heart which, consequently, may may create hurdles in their scadesic schievement. On the other hand, make high schievers, maybe, readily consult their teachers and classmates for necessary help, and thus they have better the cess to schieve scademically. But, it would be safer not to consider it the primisfacie reason, underlying high or low academic achievement.

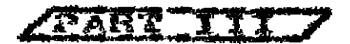
other studies, conducted both in India as well as abroad, present contradictory results. Rushton (27, p.183), for instance, reported that introverted students are generally low achievers. Vidya Thargava (5, Pp.85-86) too, observed a significant relationship between high academic achievement and extraverted students who occupy significant position in their group. Devadasen (8, Pp.81-84), on the other hand, reported that extraverted students stand bleak chances for better academic achievement. But, Sinha reported "now relatiouship between introversion - extraversion and academic achievement as the rivelue - .8 is not significant at .05 level." (30, Pp.92-93).

Before concluding, one thing that strikes the

reader's mind is that the low boys and girls are equal on all the eight personality traits. Thus, it is reasonable to infer that low boys and girls are identical in respect of their personality make-up irrespective of their sex differences.

A summary of the conclusions, inferred from its findings, both in their own right and as related to the findings of other researches in the field, is presented in the succeeding Chapter captioned "Retrospect and Prespect."

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# CHARLES V.



## MAIN PINDINGS:

- And a maker of rowaling but interesting findings have swarged from the present study:
- (1) The high achieving students, taken together, were found to be more active, persistent, hard-working, and intensive in their efforts than the low achieving students. This is the case for both boys and girls.
- (2) The high-achieving boys were found to be more impulsive and hurried in speech, and cheerful by temperament, as compared to those falling in the low group, But, the high achievers, as a whole, did not differ signifiantly from that of low achievers in respect of hypomenic temperament.
- (3) The total group of high achievers was noted to possess positive attitude towards morel values significantly higher than that of low achievers. On one hand, the high female-achievers were found to have a positive attitude towards morel values significantly higher than the high male high achievers, and, on the other, they were noted to have significantly higher positive attitude towards

moral values as compared to the famale low achievers.

- (4) The high achievers, as a whole, were reported to be more dominant than those in the low group. It was also observed that the female high achievers showed more frequent dominant behaviour than the male high achievers.
- (5) Paramoid tendency was identified more in the total group of low achievers then in the total of high achievers. But, high achieving males, studied separately, were found not to differ significantly from boys in the low group.
- (6) The high achievers appeared to be less depressive as compared to the low achievers. It was also observed that the female high achievers were less depressive than the male high achievers.
- (7) The high schievers were found to be emotionally more stable and less easily aroused than those in the low group. But male and female high achievers, studied separately, did not differ significantly from male and female low achievers in respect of emotional instability.
- eignificantly from those in the low group on introversion.
  But it was also revealed that whereas the high-achievers (boys) were reported to be less introverted inbehaviour than the low schievers (boys), the female high achievers seemed identical with the low-achieving females in respect of their introverted behaviour.

## LIMITATIONS OF THE STUDY.

The term 'personality' is comprehensive, yet in the present study it has been restricted to only eight personality characteristics, viz, Activity, Hypomenic Temperament, Attitude towards Moral Values, Dominance, Parenoid Tendency, Depressive Tendency, Smotional Instability, and Introversion.

It is a study, as indicated earlier, of 168 students of Class IX (112 boys and 56 girls) for whom examination marks alone are treated as index of schievement. A perusal of the relevant literature shows that many researchers have relied on these marks. In addition, the curricular group with which a pupil is competing may be comparatively a loss select group academically and consequently it may give rise to his good achievement, and vice were. In fact, the achievement is academic sphere is a function of all that the individual stands for and the various characteristics of the social setting. Factors like different types of teachers, variety of instructional programmes are too important to be excluded from the criterion of achievement.

There is need to have some reservations whenever denotusions formed on the basis of such marks are taken as valid. The limitation involved in relating personality variables to or predicting them from the achievement on the basis of examination marks become intricate when such factors as (a) heterogeneity of standards in

marking and (b) errors of measurement or prediction, involved, for instance, in stretching of results over a long period of time on the basis of the marks of one or two occasions are overlooked.

In addition to the above limitations of a general kind, the present study suffers from a number of specific disadvantages.

- (1) Dr. Sen's Personality Traits Inventory has its own limitations as the personality traits or characteristics that are included in this inventory simply cover an aspect of the total complex that is labelled as 'Personality'.
- (2) This investigation has been derried out at an exploratory level. Therefore, the results, obtained from this study may be verified by large scale research at a later stage.

### CUNCLUMIONU.

The analyzed data warrant these general provisional conclusions:

- (1) It can safely be concluded that industry, persistence, effort, and intensive work (here, represented by Activity) prove to be determining factors in raising the level of one's academic achievement.
- (2) Positive and healthy attitude towards moral values

also affects one's academic achievement (especially, in case of girls) by raising it from the existing level.

- (3) Parahold Tendency proves to be a deteriorating factor in lowering the level of one's academic achievement. It holds more true in case of low female achievers.
- (4) Depression goes a long way in adversely affecting the ctudents' (particularly, low achieving firls) academic achievement, i.e., the more a student is depressive, the lesser does he or she achieve academically.
- (5) Smotional meladjustment contributes towards lowering down students, achievement in the school, irrespective of their sex differences.
- (6) Introversion slows down the students' academic schievement (particularly, that of the male low achievers).

#### IMPLICATIONS AND USEFULNESS. OF THE STUDY

A member of significant implications emanate from the foregoing conclusions. They may be listed as follows:

- (1) The teachers should see that such an atmosphere is created in the class-room that the low schievers start deriving interest in their studies and thereby becoming more industrious and hard-working.
- (2) The principal and teachers should make efforts

to create such an atmosphere in which every student, irrespective of sex differences, reels hisself or herself more cheerful, free, and easy. The principal and the teachers may, in the first place, identify low achievers and then provide congenial atmosphere so as to infuse a new spirit of work in them.

- (3) In order that a positive and healthy attitude towards moral values is created in the stidents, brief life-histories of the great persons key he told to the students in the daily morning gatherings. Further, the teachers should prepare a code of conduct for themselves and strictly adhere to it.
- (4) An attempt should be made to eliminate unreasonable and vain fears that haunt the low achievers minds. A sense of security should be cultivated and developed in them so that classroom becomes a happy experience for them.
- (8) The teacher should make his teaching interesting and should plan the matter in the light of the students: needs. It will help the teachers in removing lethergy and mental intertia, generally prevailing among low achievers.
- (6) Emotionally unstable students are, as a rule, more sensitive than those who are emotionally stable. Therefore, the teacher should, in the first place, try to know the causes leading to emotional instability and in the light

of the discovered causes he should provide due guidence with love and affection to such students.

for needy students, he should identify those children who are socially withdrawn. He should ask, for instance, such students to express their views on a topic before his class-mates. Such students may also be asked to participate in activities like reciting poems, playing a role in dramatics, and similar other activities. The teacher should see that these students do not feel any kind of hesitation in approaching him in connection with their problems - academic or otherwise.

#### SUGGESTIONS FOR FURTHER REGIARCH.

Since it is an acknowledged fact that educational research is yet in its infancy in India, there is a wide scope for further studies in this field of great significance. Some broad suggestions regarding further studies are given below:

- achievement and personality factors like motivational and aspirational level, interest, and apair aptitude may be undertaken at different educational levels, for instance, at high school level, college level, and so on.
- (2) A study as how the values of parents affect the

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child's personality make-up and thereby his academic achievement may be conducted.

- (3) It would really be a worth-while attempt to study how the differences in the outcomes of class-room experiences have their origins in the out-of-school-behaviour.
- (4) In order to ensure dependable results, achievement indices of the pupils for the provious three-four years as well as their achievement indices in extra curricular activities may also be taken into account.
- (5) A study on the relationship between academic achievement and personality traits other than those included in the present study (e.g. belf-Sufficiency and the like) may be undertaken.
- (6) other techniques (e.g. projective techniques) may be used to identify relationship between personality characteristics and ecademic achievements
- (7) While it is true that various factors of individual differences determine academic achievement, little or no attempts have been made in our country to specify to the processes which help in translating the individual differences into differences in achievement, leans, this field offers much promise for the prospective researchers.





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# APPENDIX-A.

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## APPENDIX - D.

Exactnation Marks and I.Q. to of 168 pupils into ke two sexturoups with two equated sub-groups in each.

	and the sales of t	
U.No. Code Nog	Examination Marks.	TaCa's
1. BOYS-HIGH GROUP.		
1. BI-m 26	414	120
2. BII-9 d 20	371	110
3. BII-bl	368	1.10
4. BI.b2	367	126
o. Bl.a28	365	101
6.2. BII,e27	360	100
7 8. SII,a39	358	93
S N. BII,al2	367	759
9.10. 3II,b13,	361	103
10.11. BI,bl	350	106
11.32. BII,03,	349	99
12.18. BII,ell	348	88
13. HII.a26	347	94
14. BII.010	344	77
15. BII,d13.	341	113,
16. HI,810,	339,	110,
17. BII,042	339	76
18. BI,c-10	337	106
13. BII, d32	339	91
20. BI.b4	221	123
21. BI,es	330	101
22. Bl.cl	327	120

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23. BII. MA	127	104
24. 81,8-16	324	127
25. BII,63,	322	80
26. 111.02.	321	103
27. BII.dl4	320	132
23; BI,cl4	319	126
29. BI.b25	317	118
30. BIT, dls	315	118
31. BI,b14	312	113
32. BI,029	312	117
33. BI,c2	307	112
34. BI,m2	305	124
35. BII,d8	304	91
36. 8I,el6	303	112
37. BII,b6	299	106
38; BII, b7	297	100
39. HIT. 05	207	84
40. HII.el4	294	84
41. Ble8	294	119
42. BII,dis	293	93
43. BI, M7	292	116
44. BI. 830	291	120
46. 811,617	287	705
46. DI. 422	287	119
47. BII ,020	236	90
48. 811,01	285	101
49, 91,519	282	121
50. BII. 695	281	101

51.	BII,013	230	70
<b>52.</b>	81,b28	277	117
53.	BIT.blo	273	36
54.	BI1,630	273	84
55.	BII,034	273	99
<b>56</b> .	BII,e6	272	130
<b>*</b> T*	II. Boys - L	ow Group.	
57.	BIT,dea	206	120
58.	BII,dl7	199	110
59.	SEA, II	181	310
60*	ell, o7	189	126
61.	BII,al8	213	riol
62.	BI, <b>b16</b>	144	97
63.	BIT, e41	181	95
84.	8T, a25	183	130
8B.	SII,e-16	215	130
66.	SII, mll	213	108
67.	BII.al5	208	197
68.	811,026	213	87
69.	BI . 023	202	95
70.	BII,e18	213	76
71.	BII.m38	216	112
72.	911,c16	178	111
73.	BII.Al	173	78
74.	BII,#16	194	108
76.	BII.	169	94
76 *	BII.m33	210	124

			<b>-107-</b>
77.	BII,al4	177	104
78.	BI.aZB	192	150
79.	BII,alO	199	108
<b>- 0</b> 5	811,428	178	126
81.	MII.ala	199	80
82.	HJI.c9	217	703
83.	61,018	203	132
<b>34.</b> ∗	rill * maa	520	126
35.	mil.els	207	117
86.	BI,c24	184	718
87.	BII,a30	107	113
88.	sI,al2	210	713
89.	BII,al7	180	775
90.	BI .b17	503	124
91.	. BI1,d23	152	104
32	, BII, dass	180	113
<b>33</b>	. BI,026	171	107
34	. BII. #20	175	96
95	. BII.021	219	93
26	. 811.632	194	80
97	. BII.d33	, 158	119
98	. Bli,als	148	93
<b>9</b> 4	, DII, 517	218	116
10	O. BII, 033	181	120
	)1. BII, 07	530	708
	DS. BI,b6	808	118
	03. BI.025	199	90

104.	BII, c24	B	183	104
105.	311,440		195	121
103.	BI,022		171	102
107.	011,e5		210	70
108.	BII,d9		810	116
109.	B11, <b>U</b> 3		216	86
110.	BII,a22		164	84
111.	SI, <b>638</b>		193	93
112.	HI,c9		191	130
xxxx	III.92rl	0 - Hi	th Group	4
113.	Ga-29		463	107
114.	3x+27		402	73
115.			454	93
116.	G-b-6		440	131
117.	Qa=6		435	110
118.	Gn-19		436	113
119.	Qb <b>-5</b>		425	104
120.	On-1		423	93
121.	ŭ <b>n</b> +2		423	108
122.	Qa-14		414	110
123.	Ga-12		412	104
124.	36-8		408	71
125.	00-6		405	84
126.	06 <b>-31</b>		403	88
127*	Ga-7		396	101
128.	0b-1		394	87
129.	3b-40		389	115

130.	Gp-57	387	81
lal.	Ga-9	386	110
132*	Ga-11	380	87
133.	Gb-15	370	80
134.	Ge-5	359	90
135.	CB-83	358	101
136.	0a-21	357	74
137.	Gb-32	362	74
138.	0a-3	342	85
139.	Gb-26	337	117
140.	Gb-29	336	126
<b>法杂义</b>	IV. Gir	la Low Grou	10 =
141.	0c-11	255	105
142.	Gb-19	797	73
143 .	Gb <b>-34</b>	189	92
144.	Gc-12	247	131
145.	GD -3	227	110
148.	Qe-33	219	113
147.	<b>G</b> + <b>d</b>	237	103
148.	Gb <b>-1</b> 0	225	92
149.	Gb -20	247	110
150.	Ga-31	205	110
1.51 .	Ga-24	250	104
152 .	Qa-23	190	71
153	Ga-37	246	80
10.	Gc-24	285	91
165.	0a-30	217	102
156 -	0b-18	226	87
157.	Ge-30	182	116

158.	Gb +13	180	82
18),	Gb-41	241	110
130	3n-36	195	87
161.	Gc-23	204	80
162.	0a-27	225	90
163.	Jo-82	174	102
134.	9b <b>-1</b> 3	205	74
155.	9 Ob-37	174	75
196.	0n-28	206	88
167.	Sb <b>-11</b>	223	117
168.	Gc+29	171	127

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Appendix-E.

Learnes on eight personality characteristics of 168

Students.

S. Code No. No.*	Acti- vity.	Hypo- menic Pempera- ment,	Attitude Towards moral value.	Bomi- nance		Dopre- saive Tende- -Acy.	imo- tional Insta- bility	Intro- ver- sion.
BOYS HIGH				<del>,                                    </del>	****			
1.	23	13	27	16	20	16	20	24
2.	22	20	24	16	28	10	12	16
3.	26	20	28	<b>2</b> 2	8	8	10	4
4.	23	16	28	18	24	50	70	12
5,	10	16	22	24	16	22	16	16
6.	13	18	24	10	20	13	11	12
7.	16	1.6	18	12	16	24	в	18
8.	24	14	30	18	10	14	2	•
9,	24	18	24	12	20	14	6	8
10.	26	18	25	12	18	8	10	13
11.	28	21	18	14	13	19	11	16
12.	22	14	18	19	24	16	14	15
13.	12	15	20	11	24	13	16	16
14.	22	24	18	12	18	14	8	16
16.	22	17	24	32	14	18	6	8
16.	28	24	27	20	10	20	ð	18
17.	26	26	24	24	16	23	18	23
18.	24	20	24	21	19	12	13	10
19.	23	28	22	19	20	27	20	19
20.	22	22	24	14	24	20	10	16
		10	28	12	4	12	18	6
81.	22		22	20	16	10	14	12
22.	82	14	<b>荷幣</b>	***				

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26	14	26	20	16	12	7	6
12	8	26	10	18	26	16	22
26	20	22	16	24	20	10	12
84	10	16	16	88	24	17	12.
24		23	22	<b>20</b>	20	14	14
24	18	88	23	50	12	14	10
18	18	24	17	:36	18	25	25
16	14	23	24	16	21	11	14
28	18	26	22	16	20	6	14
24	20	26	16	14	15	14	10
26	10	22	10	8	10	2	4
23	14	22	22	10	18	10	14
25	18	22	18	22	14	11	14
28	70	88	8	a	10	4	4
36	20	24	16	20	14	18	18
24	16	24	ದರಿ	13	12	8	8
24	22	24	21	16	10	17	16
24	. 14	18	14	14	4	6	6
28	22	24	18	18	14	12	18
26	88	28	18	28	16	12	10
28	18	26	18	24	10	10	12
22	22	22	18	16	22	23	16
23	20	24	16	8	16	10	8
24	78	24	50	20	16	10	18
20	19	82	8	21	16	20	18
30	16	26	19	16	13	7	10
30	26	24	24	10	16	<b>3</b>	14
14	12	19	16	12	8	14	*
20	20	22	14	18	18	12	8

-113-

4. 4	26	22	24	24	22	20	20	16
e G	20	12	18	16	20	19	12	16
3	19	21	20	12	13	23	11	20
į	30	18	24	18	18	20	10	18
	19	24	25	81	15	14	16	9
WW OH	QNE/							
	9	13	14	16	19	22	16	11
;	80	18	28	18	18	13	14	18
	16	18	16	26	24	18	8	4
	20	14	23	14	20	88	15	14
	20	75	26	22	23	20	19	12
	14 24	24 16	20 24	20 20	23	20	22	26
	8	14	14	14	16	27	11	14
	16	16	27	18	22	20	16	12
	22	18	22	13	20	17	16	20
	19	16	12	15	16	20	22	25
	22	12	24	50	10	18	14	8
	12	14	15	ő	<b>21</b>	17	12	15
	24	12	20	22	20	24	16	18
	26	18	24	18	20	78	18	18
	20	26	20	20	25	16	81	16
	18	22	21	18	17	16	19	19
	24	18	24	16	16	14	6	10
	26	24	22	18	24	36	14	16
	22	18	30	22	14	12	10	18
	11	11	18	14	17	11	14	12
	25	14	28	16	21	18	11	10
	28	80	24	16	25	16	14	8
	84	16	28	24	15	10	8	10

19	8	25	16	16	12	7	8
25	18	26	16	10	16	8	8
27	23	26	20	22	15	16	20
21	20	23	15	19	13	18	13
26	22	26	24	15	12	10	2
18	12	80	18	10	18	14	12
2.1	7	13	19	12	13	7	13
22	14	28	22	24	12	5	10
21	16	21	18	23	17	13	15
30	13	16	19	18	17	16	18
25	16	20	19	14	14	16	12
23	70	20	18	15	14	21	88
22	18	20	16	20	25	7	12
19	18	23	13	16	17	7	9
26	30	26	20	23	28	24	26
22	18	24	14	12	20	70	10
21	14	21	20	80	50	10	24
18	14	13	23	17	20	13	24
24	16	26	18	15	18	14	16
14	12	18	14	18	30	10	12
22	14	22	28	73	20	14	18
24	16	28	14	18	10	6	10
24	18	21	34	13	13	8	13
28	18	23	17	16	19	16	14
16	19	19	80	17	24	18	11
24	24	25	19	21	19	18	22
22	24	24	24	30	14	8	16
16	22	24	80	18	18	14	18

108.	28	50	24	20	24	22	10	10
109*	20	18	24	18	20	20	18	14
110.	24	22	22	16	22	16	10	14
111.	24	14	24	ì	24	24	8	10
112.	2.3	20	26	18	13	13	14	10
GIRLS HIS	OH ORUUP	X.						
113.	26	12	24	19	14	14	6	8
114.	24	16	25	22	12	14	6	10
115.	28	14	23	23	18	18	13	18
116.	22	14	26	18	13	18	12	8
117.	24	14	28	20	12	14	17	18
118.	28	14	28	13	70	4	7	14
119.	26	14	22	25	15	11	16	11
120.	8	18	24	18	10	16	11	16
121.	28	14	26	20	16	14	14	14
122.	26	26	26	22	22	16	2 14	16
<b>122.</b>	24	1622	<b>28</b>	24	26	3.4	10	18
123.	24	16	28	18	18	14	18	
184.	26	22	28	18	24	18	20	22
126.	24	23	22	18	26	9	14	17
126.	22	26	28	دن	15	10	¥	6
127.	26	20	26	20	10	14	9	18
128.	25	18	28	18	14	1418	15	17
129.	30	14	30	24	18	12	14	6
130	30	80	28	22	12	13	10	10
131.	28	14	50	24	8	18	3	12
132.	25	20	26	24	18	13	19	. 18
133*	20	16	24	19	16	20	10	22

134.	24	25	28	20	22	15	20	13
135.	13	16	17	18	17	14	14	10
136.	24	18	20	20	20	12	8	6
137.	26	18	22	16	14	18	8	26
138.	17	17	87	21	17	13	19	50
130.	24	24	28	19	13	14	6	10
140.	20	16	28	18	14	8	16	13
GIRIO L	ON DAOUP.							
141.	18	id	26	16	12	23	11	10
142.	1.3	16	22	15	22	50	14	18
143.	14	16	78	30	80	13	19	i de
144.	28.	20	22	18	18	20	18	16
145	34	80	30	18	16	30	14	16
146.	20	18	20	13	21	18	70	19
147.	28	22	24	18	22	14	20	18
143.	12	20	26	28	24	22	12	10
149.	13	14	16	13	21	22	24	11
150.	18	12	28	18	16	16	8	4
161.	22	14	24	22	18	14	4	14
152.	17	21	18	18	19	23	14	80
153.	14	88	27	19	21	20	8	8
154.	24	16	24	18	15	16	18	22
166.	23	18	24	14	10	22	14	10
166.	28	18	24	16	<b>38</b>	18	16	18
157.	24	27	24	24	21	17	14	19
158.	22	14	26	18	14	16	14	20
159.	24	16	26	22	15	8	4	8
160*	27	14	22	17	17	16	20	17

- 44	-		
	7	F3	
-	-2		

26	24	24	14	18	12	10	17
24	26	24	24	23	15	14	13
12	78	22	80	20	3.3	22	73
18	23	21	13	14	18	18	12
18	20	24	24	24	18	22	22
14	12	20	10	18	13	18	10
23	16	18	14	16	12	141	10
28	15	26	12	19	20	14	8

**化型在压水水体分离体条** 

referred to in the Appendix-D Column No.2.